

## Sc. 7 Chapter 6 Pre-Test of Love & Caring

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Part A:** Circle T for true or F for false.( 1 mark each, total 6 marks)

1. All samples of the same pure substance have different properties. T F
2. Water, carbon dioxide, and table salt are examples of elements. T F
3. Orange juice and muddy water are examples of suspensions. T F
4. The best way to separate a mixture of iron filings and sand is to use magnets. T F
5. A solution is saturated when no more solute can be dissolved in it. T F
6. Basic solutions have pH values that are below 7. T F

**Part B:** Matching. ( 1 mark each, total 10 marks)

Match each term with the correct definition on the right.

7. \_\_\_ Emulsion      A. Substance that cannot be broken down, consists of only one kind of particle.
8. \_\_\_ Dilute      B. Is a sour-tasting solution, reacts with metals, causes serious burns.
9. \_\_\_ Unsaturated      C. A mixture with clumps of a solid throughout the liquid.
10. \_\_\_ Solubility      D. Contains two or more pure substances; made of 2 or more kinds of particles.
11. \_\_\_ Dissolve      E. A bitter tasting solution, feels slippery, reacts with fats and oils, causes serious burns.
12. \_\_\_ Suspension      F. Mix completely with another substance.
13. \_\_\_ Acid      G. A solution with a low concentration of solute.
14. \_\_\_ Base      H. The ability of a substance to dissolve in a solvent.
15. \_\_\_ Element      I. A solution in which more of the solute can be dissolved.
16. \_\_\_ Mixture      J. A mixture that has been treated to prevent it from separating.

**Part C:** Multiple Choice. ( 1 mark each, total 3 marks )

1. If you have a sample consisting of a pure substance made of two or more different elements, you have a(n)
  - a. Compound
  - b. Element
  - c. Mixture
  - d. Solution
2. A scientist combines oxygen and hydrogen to form water. This combination illustrates that water is...
  - a. An atom
  - b. An element
  - c. A mixture
  - d. A compound
3. Concrete is an example of a...
  - a. Solution
  - b. Suspension
  - c. Compound
  - d. Mechanical mixture

**Part D:** Identify the following products as either a suspension, mechanical mixture or solution.  
( 1 mark each, total 4 marks)

Product	<u>mechanical mixture</u> , <u>suspension</u> or <u>solution</u> ?
A. Homogenized Milk	
B. Regular tap Water	
C. Granola	
D. Hand lotion	

**Part E:** Choose the best method for separating things from the mixtures below. Possible choices are listed under the table. ( 1 mark each, total 4 marks)

Situation	Best Method of Separation
a. Separating salt from saltwater.	
b. Separating sawdust from sand.	
c. Separating peanuts from a bowl of various mixed nuts.	
d. Separating flour from water.	

Picking apart  
Evaporating

Filtering

Using density

Magnetism

Dissolving